


## Department of Applied Mechanics

<p><b>Name:</b> <b>Dr. (Ms.) Debarati Datta</b> <b>Assistant Professor</b></p>	
<p><b>Area of Specialization:</b> Structural Dynamics, Earthquake and wind effects on structures, Structural Reliability</p>	
<p><b>Prominent journal paper publications :</b></p> <ol style="list-style-type: none"><li>1. Ghosh S, Datta D and Katakdhond AA (2011), “Estimation of Park-Ang damage index in planar multi-story frames using equivalent single-degree systems”, Engineering Structures, 33(9), 2509-2524</li><li>2. Datta D and Ghosh S (2009), “Uniform Hazard Spectra based on Park-Ang Damage Index”, Journal of Earthquake and Tsunami, 2(3), 241- 258</li><li>3. Datta D and Chakraborty S (2008), “Random variables reduction in reliability analysis”, Icfai University Journal of Structural Engineering</li></ol>	

### Other prominent publications (Conf.):

1. Tidke S G and Datta D (2012), “Study of short concrete filled tubular (CFT) columns of different shapes”, SPICON 2012, International Conference at Sardar Patel College of Engineering, Mumbai
2. Datta D (2012), “Comparative Study of Equivalent Single Degree of Freedom Systems Based on Pushover Analysis”, International Symposium on Engineering under Uncertainty : Safety Assessment and Management (ISEUSAM 2012) at Bengal Engineering and Science University
3. Datta D and Ghosh S (2008), “Estimating Park-Ang Damage Index using Equivalent Systems”, 14th World Conference on Earthquake Engineering (14WCEE), Beijing, China
4. Datta D and Ghosh S (2007), ”Uniform Hazard Spectra for Park-Ang Damage Index”, CENeM-2007, Bengal Engineering and Science University, Shibpore, W.B.
5. Datta D and Ghosh S (2006), “Inelastic Uniform Hazard Spectra Based on Park-Ang Damage Index”, 13th Symposium on Earthquake Engineering, IIT Roorkee.

6. Datta D and Ghosh S (2006), "Probabilistic Response Spectra in Earthquake Engineering: an Overall Review", National conference on 'Earthquake Disaster: Technology and Management' (EARTH'06), MNNIT,

**Ph D research students guided, research topics, brief statement of achievements:**

1. Mr. Vinod Nagpure (part time student) (July 2013; now doing coursework)  
Research Topic: Earthquake and wind effects on ESR

**Sponsored research projects, brief statement of achievements: NA**

**Consultancy research projects, brief statement of achievements : NA**

**Other capabilities (administrative and other achievements) :**

- i. Warden of Girls' Hostel
- ii. Departmental TEQIP II Coordinator